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List of Elevations, above Mean Tide, through the County of Indiana, in Pennsylvania, copied from Notes of Survey under Gen. H. Haupt, for the Sea Board Pipe Line.

BY O. BARRETT, JR.

(Read before the American Philosophical Society, October 5th, 1877.)

Stations.	Elevations.	Trees, &c., Marked with White Paint.
1376.70	1481.9	In Armstrong Co. Land of J. Scott, $1\frac{1}{2}$ m. from Dayton.
1377.00	.....	Line of Armstrong and Indiana Counties.
1378.35	1474.00	6' right Chestnut Oak. On land of E. D. Sheffer. In woods.
1401.20	1489.55	46' right Cucumber Tree. Land of J. L. Buterbaugh.
1419.25	1463.35	8' left White Oak, edge of woods. Land of Sam'l T. Fulton.
1429.15	1470.00	11' right Apple Tree, in orchard, near dwelling of S. T. Fulton.
1442.90	1461.20	92' right White Oak, near Public Road. Land of J. A. Wingrone.
1453.40	1433.50	170' from Pin Oak. Smicksburg 2 miles north.
1481.90	1387.75	80' right Wild Cherry. Land of Ephraim Ritchey.
1490.75	1403.00	6' right White Oak. Land of Chris. Good.
1498.90	1305.00	35' left Poplar. " " " Smicksburg, about 2 miles north.
1515.50	1278.10	15' right spring house of Barnabas Lowe.
1519.00	1313.30	15' left Apple. Land of Mrs. Lena Lukehart.
1537.00	1292.00	20' left White Oak "snag." Land of Mrs. Catharine Bowser.
1544.80	1315.95	69' right White Oak. Land of Mrs. Catharine Bowser.
1558.40	1464.50	90' left dead tree. Land of John Lewis.
1559.90	1483.50	20' left fence stake. " " "
1561.30	1480.70	52' right " " " Between two pines, on high hill, very prominent point.
1570.75	1309.30	9' right fence stake, 150' right dwelling of John Lewis.
1580.80	1338.50	8' left fence stake. Land of Isaac Good. About 18 miles to Indiana and 20 miles to Kittanning from station 1580.80
1589.95	1279.30	4' right dead tree. Land of Isaac Good.
1599.20	1350.10	19' right dead Wild Cherry. Land of David Elkin.
1604.65	1300.30	37' left dead tree. " " "
1608.90	1246.60	4' right White Oak. Edge Woods. Land of Jas. M. Wells.
1613.60	1256.50	6' left Hickory. Edge Woods. Land of Jas. M. Wells.
1631.65	1225.80	107' left Wild Cherry. Edge Woods. Land of Jas. M. Wells.
1638.30	1237.20	50' right dead tree.
1642.80	1231.80	16' left White Oak. Beginning of Woods.
1652.05	1225.45	12' right " In Woods. Land of Robt. L. Mabon.
1665.50	1219.90	23' left White Oak. Edge of Woods. Land of J. L. Mabon.

Stations.	Eleva- tions.	Trees, &c., Marked with White Paint.
1669.60	1221.20	138' left Hickory. Front of Mr. J. L. Mabon's dwelling.
1676.35	1228.45	35' left White Oak.
1680.65	1279.60	78' left Red Oak.
1684.20	1276.70	8' left Maple.
1695.00	1899.30	right of gate post, near Absalom Neff's barn.
1701.45	1216.20	15' left White Oak. Land of Absalom Neff.
1717.70	1245.90	9' right White Oak. In Public Road. Land of John Smith.
1725.45	1314.00	28' right fence stake, between house and barn of Mr. Smith.
1727.55	1313.50	32' left Ash.
1739.00	1335.70	4' right Cucumber Tree.
1745.20	1372.90	38' right Ash. Land of Allen Hamilton.
1757.20	1344.35	73' left Hickory. Land of Mrs. Hannah F. Hamilton.
1762.85	1303.60	right White Oak. <i>Smyrna Church</i> 900' north.
1776.90	1326.15	15' left Gum. Land of Silas W. Brady.
1781.50	1395.50	6' left Pin Oak. In woods. Land of W. A. Hamilton.
1785.95	1321.20	2' left fence stake. Land of Thomas Stuart.
1794.40	1316.40	21' left White Oak.
1802.35	1513.60	7' right Red Oak. Top Hill in woods.
1819.00	1294.40	55' right large White Oak. Land of James Hopkins. Near Public Road.
1847.30	1428.40	6' left fence, near dwelling of Moses T. Work.
1868.70	1277.80	15' right White Oak. In Road. Land of E. I. Work.
1881.45	1341.30	20' right Pin Oak. In Road. Land of Wm. I. Work.
1889.55	1354.10	70' left Pine. " "
1898.40	1373.10	4' right Pin Oak, in woods.
1910.90	1349.00	10' left White Oak, edge woods. Land of Mr. Steffer.
1926.00	1350.10	8' left " Land of Mr. Steffer.
1932.15	1271.40	6' left White Oak. Land of Abner Griffith.
1934.40	1280.90	1' left fence stake, in Public Road.
1950.50	1318.00	53' right Locust. Land of Wm. G. Stewart.
1970.90	1347.80	4' left Chestnut. Land of Samuel Lewis. In woods.
1984.90	1463.90	10' left Chestnut. Land of J. J. Williams. Edge woods.
1991.70	1493.90	55' right Chestnut. In field. <i>Marion</i> , $\frac{3}{4}$ mile south.
2002.60	1411.60	5' right White Oak. In woods. " "
2014.35	1534.40	3' left fence stake. In field. Land of Levi Spencer.
2018.75	1549.10	5' left Chestnut. In woods. " "
2028.30	1486.90	14' left White Oak. In clearing. Land of James Hunter.
2050.00	1666.70	8' left dead tree in field. Land of James Hunter.
2057.10	1693.70	4' right White Oak, in Public Road. Land of James Hunter.
2071.20	1627.20	11' right dead tree. Land of Samuel Lewis. 15 miles to Indiana.
2079.85	1631.70	55' right Hickory. Land of "Abe" Lowman, Jr.
2088.50	1594.30	3' left Hickory. Land of Geo. Schrader.
2100.05	1457.80	8' left Maple in Public Road.
2113.45	1471.50	5' right dead White Oak. Land of Lorenz Reithmiller.
2118.40	1470.60	9' right Wagon Shed, near Reithmiller's buildings.
2125.75	1413.00	4' left dead White Oak.
2140.20	1643.90	3' left Hickory. Beginning woods.

Stations.	Elevations.	Trees, &c., Marked with White Paint.
2153.50	1458.10	9' right Lynn, in <i>new</i> Road. Land of Solomon Fullmer. In woods.
2155.15	1424.00	15' right Beech.
2166.25	1398.70	4' right Beech. In woods. Land of Kinter Heirs.
2167.00	.....	In Public Road.
2167.95	1399.10	1' right Maple. In woods. Land of Kinter Heirs.
2201.60	1588.10	11' left Gum. In woods. Land of W. N. Barr.
2206.00	1647.80	1' left dead tree. Out of woods.
2215.60	1591.00	34' left Cucumber Tree. On land of Mrs. Eliza Rice. Mrs. Rice's buildings to the right.
2217.25	1587.00	In Public Road. 14 miles to Indiana.
2223.60	1643.80	1' right small dead Chestnut, Beginning woods.
2233.95	1624.10	8' right Maple. In woods.
2240.00	1527.80	13' right White Oak. In woods. Land of Joseph Ober.
2242.35	1515.90	6' left small White Oak.
2250.90	1620.60	16' right "Snag."
2256.90	1640.10	7' left Chestnut. In woods.
2262.00	1628.00	46' left dead White Oak. Out woods.
2266.75	1586.20	50' right Stump. Land of Moses and Wm. Lydick.
2278.20	1575.20	4' left "Big" White Pine.
2284.90	1599.40	9' left Poplar. Beginning of woods.
2297.15	1621.60	8' left White Pine, in Public Road on land of Jacob Fyock.
2302.25	.....	In cross roads. Dunkard Church close to the left.
2307.45	1643.90	15' left White Oak. In Public Road.
2314.90	1665.10	11' left Gum. " "
2333.75	1653.00	5' right Chestnut. Land of Geo. Wise. In Public Road.
2338.55	1625.00	10' left fence post. Solomon Wise's buildings to the right.
2354.00	1556.50	13' left dead White Oak. Land of Mr. Mumma.
2363.75	1486.20	3' right White Oak. Mrs. Catharine Barr's dwelling to the right.
2368.50	1446.50	11' right Pine.
2382.50	1427.70	16' right Apple Tree. Land of John Buterbaugh.
2393.80	1584.80	4' right dead Pine. Mills and Dam to the right.
2405.30	1395.00	15' left dead White Oak.
2417.50	1430.90	14' left dead White Pine. Land of Mrs. J. H. Stumpf.
2430.35	1535.20	4' left dead Pine in clearing. Land of Solomon Buterbaugh.
2433.45	1539.70	11' right White Oak, near Public Road.
2450.45	1606.90	73' left Pine "Snag."
2457.45	1584.80	56' left large Maple. Land of Wm. H. Lutman.
2469.35	1581.30	16' left White Pine. Back of Lutman's buildings.
2480.30	1576.40	4' left Red Oak. On land of Mrs. McCullagh.
2481.75	.....	In Public Road, near old Planing Mill. Cookport $\frac{1}{2}$ mile to the south.
2487.30	1578.00	6' right Chestnut, Land of Richard Cook.
2498.00	1555.30	1' right Chestnut. In woods.
2515.85	1574.70	2' right Pine, In Public Road.
2523.10	1559.60	4' left Pine. " "
2536.50	1549.20	3' left Pine. " " Land of Geo. Baker.
2553.50	1614.20	11' right Stump. " "
2559.40	1604.70	16' right fence " " Land of Peter Leasure.

Stations.	Elevations.	Trees, &c., Marked with White Paint.
2561.75	.....	Peter Leasure's buildings on both sides of road.
2562.85	1580.40	15' left Balm of Gilead. Public Road.
2572.15	1574.80	12' right Pine. " "
2584.60	1517.80	6' right Hemlock. " "
2589.20	.....	Compton's Saw Mill and Dam.
2592.30	1438.80	17' right small Pine.
2595.45	1486.30	Right Red Oak, in woods.
2603.30	1570.50	4' left Hemlock, " "
2610.10	1512.20	6' left " " In wood road.
2614.00	1467.90	9' left " " " "
2621.95	1619.20	3' left " " " "
2626.15	1638.40	20' left Maple, near Public Road. Spruce P. O., $\frac{1}{2}$ mile north. Cherry Tree $5\frac{1}{2}$ miles north. Indiana $16\frac{1}{2}$ miles south-west.
2628.25	1626.70	4' right Hemlock. In woods.
2638.30	1527.00	3' right White Oak. " "
2640.15	1510.00	Two Lick Creek at Repine's old Saw Mill.
2642.95	1528.70	9' right Maple. Land of J. C. Repine.
2655.15	1680.10	8' right Stump. Land of Thomas Patterson.
2661.00	.....	Public Road. Church to left.
2664.50	.....	Patterson's buildings to left.
2666.34	1671.40	4' right Chestnut.
2676.20	1736.20	7' right Chestnut. Land of J. C. Leasure.
2683.45	1869.10	28' left Chestnut. In road and in woods.
2691.50	1920.30	1' right Chestnut Oak. In woods. Land of Thomas McDowell.
2701.05	1974.80	9' left Chestnut Oak Land of Robert Pershing.
2705.20	1956.70	28' right fence post.
2707.50	.....	Pershing's buildings close to left.
2710.20	1946.60	4' left fence stake.
2714.60	1972.20	5' right Chestnut Oak.
2719.55	1963.30	1' left fence stake in Public Road.
2722.90	1940.60	20' right Hickory. Land of J. T. Thomas, Sr.
2729.00	1906.00	17' right Chestnut. Land of O. J. Williams.
2739.65	1965.30	5' right Chestnut Oak. Land of David Martin.
2745.55	1999.20	8' left Stump. <i>High point</i> . Divide between Alleghany and Susquehanna waters.
2751.00	1991.40	19' right Stump.
2752.00	.....	D. Martin's buildings to right.
2762.25	1970.80	6' right Stump. In Public Road. Martin's store to right. 18 miles to Indiana. 16 miles to Ebensburg.
2770.80	1941.90	30' right dead Pine. Land of J. Martin.
2774.25	1905.70	8' right Hickory. Land of Mrs. Nancy Keith.
2779.70	1848.30	2' left Beech. Beginning of woods.
2781.65	1843.90	4' left Beech. Land of J. Martin. In woods. On waters of Dutch Run, flowing into the Black Lick.
2786.55	1830.20	4' right Pine. <i>About</i> the line between Indiana and Cambria Counties.
2790.65	1825.30	4' left Hemlock.

The whole of the stations are not given, as I thought it not necessary.

The stations "run" by hundreds of feet and the decimals of a hundred feet.—Station 2790.65 would read : two hundred and seventy-nine thousand and sixty-five feet ; or, 52.85 miles.